

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Addease COMMISSIONER FOR PATENTS PO Box 1430 Alexandra, Virginia 22313-1450 www.webjo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/823,784	04/14/2004	Karen Uhlmann	3035-101	4952
JOYCE VON I	7590 05/15/2008 NATZMER	EXAMINER		
PEQUIGNOT + MYERS LLC			SHAW, AMANDA MARIE	
200 Madison A Suite 1901	venue		ART UNIT	PAPER NUMBER
New York, NY	10016	1634		
			MAIL DATE	DELIVERY MODE
			05/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/823,784	UHLMANN ET AL.	
Examiner	Art Unit	
AMANDA SHAW	1634	

	AMANDA SHAW	1634	
The MAILING DATE of this communication appe	ars on the cover sheet with the o	orrespondence add	ress
THE REPLY FILED 28 April 2008 FAILS TO PLACE THIS APP	LICATION IN CONDITION FOR AL	LOWANCE.	
<ol> <li>The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C</li> </ol>	the same day as filing a Notice of a replies: (1) an amendment, affidavi eal (with appeal fee) in compliance	Appeal. To avoid abar t, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request
periods:	Transfer in the reply must be med	Main one of the follow	ving time
a) The period for reply expiresmonths from the mailing	date of the final rejection.		
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire to	iter than SIX MONTHS from the mailing	date of the final rejection	n.
Examiner Note: If box 1 is checked, check either box (a) or ( MONTHS OF THE FINAL REJECTION. See MPEP 706.07(	).		
Extensions of time may be obtained under 37 CFR 1.138(a). The date have been filled is the date for purposes of determining the period of ext under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set set forth in (a) above, if checket. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	ension and the corresponding amount of hortened statutory period for reply origing than three months after the mailing date	of the fee. The appropria nally set in the final Office	ate extension fee e action; or (2) as
The Notice of Appeal was filed on A brief in comp.	liance with 37 CEP 41 37 must be t	iled within two months	of the date of
filing the Notice of Appeal (37 CFR 41.37(a)), or any exter Notice of Appeal has been filed, any reply must be filed w	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
<u>AMENDMENTS</u>			
<ol> <li>The proposed amendment(s) filed after a final rejection, t</li> </ol>			cause
(a) They raise new issues that would require further cor		E below);	
<ul> <li>(b) ☐ They raise the issue of new matter (see NOTE belo</li> <li>(c) ☐ They are not deemed to place the application in bet</li> </ul>		I in	
appeal; and/or	ter form for appeal by materially rec	lucing or simplifying ti	ie issues ioi
(d) They present additional claims without canceling a	corresponding number of finally reje	cted claims.	
NOTE: (See 37 CFR 1.116 and 41.33(a)).			
4. The amendments are not in compliance with 37 CFR 1.12	21 See attached Notice of Non-Cor	mnliant Amendment (	PTOL-324)
5. Applicant's reply has overcome the following rejection(s):		- Committee of the Comm	
Newly proposed or amended claim(s) would be all non-allowable claim(s).		imely filed amendmer	nt canceling the
<ol> <li>For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is proving.</li> </ol>		be entered and an e	xplanation of
The status of the claim(s) is (or will be) as follows: Claim(s) allowed: <u>none</u> .			
Claim(s) objected to: none.			
Claim(s) rejected: <u>1-5.7-20 and 22-39</u> . Claim(s) withdrawn from consideration: none.			
AFFIDAVIT OR OTHER EVIDENCE			
The affidavit or other evidence filed after a final action, bu because applicant failed to provide a showing of good and			
was not earlier presented. See 37 CFR 1.116(e).	•		,
<ol> <li>The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary</li> </ol>	vercome <u>all</u> rejections under appea	l and/or appellant fail:	s to provide a
10. The affidavit or other evidence is entered. An explanation	n of the status of the claims after er	ntry is below or attach	ed.
REQUEST FOR RECONSIDERATION/OTHER			
<ol> <li>The request for reconsideration has been considered bu <u>See Continuation Sheet.</u></li> </ol>	does NOT place the application in	condition for allowan	ce because:
<ol> <li>Note the attached Information Disclosure Statement(s).</li> </ol>	PTO/SB/08) Paper No(s)		
13. Other:			
	/Juliet C Switzer/	-14.400.4	
	Primary Examiner, Art U	HIL 1034	

Continuation of 5. Applicant's reply has overcome the following rejection(s): The rejection made under 35 USC 112 2nd paragraph in section 4 of the Office Action of February 28, 2008 is withdrawn in view of amendments made to the claims.

Continuation of 11, does NOT place the application in condition for allowance because: Regarding the rejection made under 35 USC 103(a) over Ulmann in view of Nyren the Applicants argue that a person skilled in the art would be reluctant to make the modification to Ulmann that the Office suggested, namely detectably labeled Ulmann's amplification primes because it would interfere with Ulmann's subsequent cloning step. Further the Applicants argue that the modification proposed by the Office would render Ulmann unsatisfactory for its intended purse. The Applicants refer to MPEP 2143.01 and In re Gordon 733 F. 29 90, 221 USPO 1125 (Fed. Cir. 1984) for support. This argument has been fully considered but is not persuasive. First of all the intended purposes to MINIMANN in an of the onling, it is sequencing in order to determine if methylorin is present. The abstitution of the sequencing method of Ulmann (which requires a cloning step) for the sequencing step of Nyren (which does not require a cloning step) would not render Ulmann unsatisfactory for its intended purpose because be closured purpose to determine the sequence of the muedic exict, which Nyren clearly does. Again it is noted that the claims do not require a cloning step. Therefore labeling the primers as suggested by Nyren would not interfere with the sequencing method of Nyren.

Next the Applicants point to a recent discussion of non-obviousness in Ortho-McNeil Pharmaceutical v. Mylan Labs, 2008-1223, Fed Cir. March 31, 2008. This case deals with hindsight analysis. In response to applicant a graument that the examiner's conclusion of obviousness is based upon inimpoper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claim enterion was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See In re McLaughlin, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

Additionally the Applicants argue that the Examiner did not consider all of the Applicants arguments of non-obviousness. First the Applicants point on an email between John Dixon and Karl Voss regarding technical difficulties associated with using biothyslated primers do not interfer with the sequencing emethod of Nyren. For example its unclear why it matters if the presence of biotin on a PCR primer bowers the annealized primers do not interfer with the sequencing method of Nyren. For example its unclear why it matters if the presence of biotin on a PCR primer bowers the annealized primers will not work. It is further Further just because John Dixon could not get one biotinylated primer to work does not mean that all biotinylated primers will not work. It is further noted that the email exchange is not considered to be proper evidence. Also the Applicants claim that they point out that other technical difficulties would have been expected from combining Uhlmann and Nyren. Specifically they state that the pyroint out that other technical difficulties dideoxymucleotide chain termination sequencing mixture and that the effects of a chemical modification of the DNA and any residual chemicals were unclear at the time the invention was made. This argument has previously been considered but is not persuasive because the Applicants are attempting to provide a howing of unexpected results however they have not provided any evidence to summort this.

The Applicants also argue that the Examiner did not consider all of the limitations of claim 12. They argue that step (d) requires detecting whether said uncleotide is methylated or not methylated at said predetermined position in the sample to diagnose said pathological condition or the predisposition for said pathological condition. This was addressed in the previous Office action and is considered to be an intended use. The claims do not have an actual method step of "diagnosing". The only actual step required in (d) is "detecting whether said nucleotide is methylated or not methylated." Thus the combined references teach all of the active process steps required by the claims. Further even if the claims were amended to actually require "diagnosing" step they would still be rejected because Uhlmann teaches an association between hypomethylation and pilocytic astrocytomas and Nyren teaches provescuencine and he used to detect disease.

Finally with regard to claim 39 the Applicants submit that by the reference to "is detected" claim 39 does require a detection of an allele frequency of 5%. This argument has been fully considered but is not persuasive because claim 39 depends from claim 34 which says "can be detected" which does not necessarily mean that it is detected.

For these reasons all of the art rejections are maintained.

Further it is noted that any arguments addressing the Declaration that has been submitted are considered moot in view of the non entry of the Declaration.